ANDRIYASHEV, M.M., inch.

Assortment of water pipes, fittings, and reinforcements. Vod. 1 san. tekh. no.10:16-19 0 64. (MIRA 18:3)

ANDRIYASHEVA, N.M.; BAKKAL, T.P.; BEKKER, S.M.; BOGDANOV-BEREZOVSKIY, V.V.; BHAUN, A.D.; VASILEVSKAYA, N.L.; GANUSENKO, M.N.; GARMASHEVA, N.L.; DEMICHEV, I.P.; DRIZGALOVICH, S.Ye.; KALIHINA, N.A.; KORSAKOVA, G.F.; KRYZHANOVSKAYA, Ye.F.; MIROVICH, N.I.; PROROKOVA, V.K.; PUGOVISHNI-KOVA, M.A.; RESHETOVA, L.A.; SVETLOV, P.D.; UTEGENOVA, K.D.; KHECHI-NASHVILI, G.G.; SHVANG, L.I.; GARMASHEVA, N.L., professor, redaktor; RULEVA, M.S., tekhnicheskiy redaktor.

[Reflex actions in mother-fetus interrelations] Reflektornye reaktsii
vo vsaimootnosheniiakh materinskogo organisma i ploda. [Leningrad]
Gos. isd-vo med. lit-ry, Leningradskoe otd-nie, 1954. 266 p.(MLRA 7:10)
(Pregnancy) (Embryology)

USSR / Human and Animal Physiology. The Action of Physical Factors.

: Ref Zhur - Biol., No 15, 1958, No. 70666

Abs Jour

: Andrivashova, N. M.

: The Poculiarities of Changes in the Poripheral Blocd of Author : Not givon

Prognant Animals following Single X-irradiation Inst Titlo

: Mod. Radiologiya, 1957, Vol 2, No 6, 19-26 Orig Pub

: In non-prognant rate and prognant rate, blood was taken by moans of excision of the ond of the tail. Studies were made of the percentage of Hgb, the loukecyte count, the Abstract

color indox, the number of reticulocytes and erythrocytes, and the differential white coll count. Irradiation was administered in doses of 500 r, at a strength of dose of 33 r/min. In pregnant rats there was a more pronounced and abrupt dogroo of anomia and intensity of regeneration

of blood cells than in the non-prognant rate. If

card 1/2

CIA-RDP86-00513R000101420013-9" **APPROVED FOR RELEASE: 03/20/2001** 

ANDRIYASHEVA, N.M.

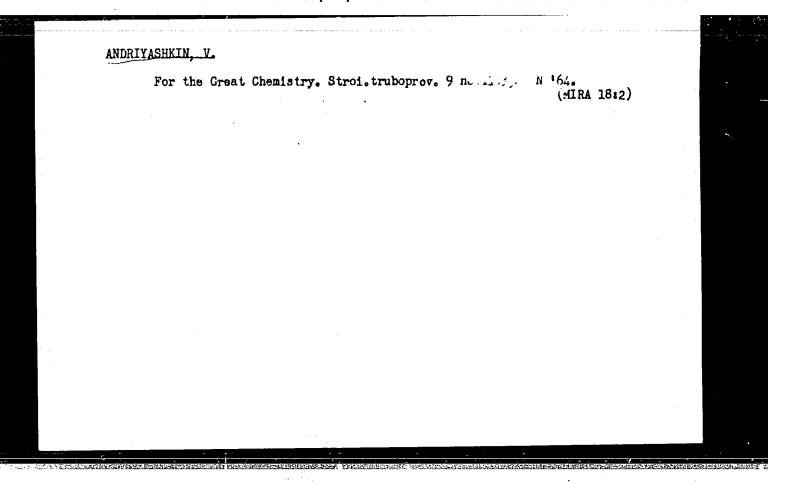
----Refect of roentgen irradiation of pregnant animals on the morphological properties of the blood of their progeny. Med.rad. 4 no. 11: 42-47 N 159.

1. Iz kliniko-diagnosticheskoy laboratorii (zaveduyushchiy - kand. med. nauk N.L. Vasilevskaya) Instituta akusherstva i ginekologii AMN SSSR.

(RADIATION EFFECTS experimental) (FETUS radiation effects) (PREGNANCY physic1.)

ANDRIYASHEVA. O.M.; PAKHLAVUNI, A.V.; SHOLOMOVICH, T.G.; AKULOVA, L.D.; USPENSKAYA, N.A.; YERMAKOV, N.S., tekhn.red.

[German-Russian dictionary of physics] Nemetsko-russkiy slovar'
po fizike. Sost. O.M.Andriiasheva i dr. Moskva, Izd-vo Mosk.
univ., 1959. 507 p.
(German language--Dictionaries--Russian)
(Physics--Dictionaries)



ANDRIYASHKIN, V.M., inzh.

Using moving scaffolding when painting tanks. Stroi. truboperv. 7 no.10:21 0 '62. (MIRA 15:11) (Scaffolding) (Tanks—Painting)

WENTYWER'S, 1. B.

"The Problem of the Types of Higher Hervous Activity of Horses." Cand
Biol Sci. Moscow Veterinary Academy, Moscow, 1953. (RZhBiol, No. 4, Feb 55)

SO: Sum. No. 631, 26 Aug. 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (14)

USSR / Human and Animal Physiology. Nervous System.

T-10

Abs Jour

: Ref Zhur - Biologiya, No 1, 1959, No. 3879

Author

: Andriyauskas, L. B.

Inst

: AS USSR

Title

: Pertaining to the Problem of Higher Nervous Activity

in Horses

Orig Pub

: V sb.: Vopr. fiziol. s.-kh. zhivotnykh. M. L., AN SSSR,

1957, 64-70

Abstract : No abstract given

Card 1/1

97

USSR / Human and Animal Physiology. Nervous System.

T-10

Abs Jour

: Ref Zhur - Biologiya, No 1, 1959, No. 3878

Author

: Andriyauskas, La Ba

Inst

: Moscow Academy of Veterinary Medicine : Pertaining to the Problem of Types of Higher Nervous

Title

Activity in Horses

Orig Pub

: Tr. Mosk. vet. akad., 1957, 20, 19-25

Abstract

: The different rate of formation of conditioned defensemotor reactions in horses was studied; prolongation to 5 minutes of the action of differentiation was tosted; alternation of the signal meaning for a pair of stimulants was examined; a stimulus of considerable physical strength was applied. Experimental investigations on 9 horses were supplemented by study of external behavior in 49 more animals. The results obtained allowed the animals to be classified as being of 3 types of higher nervous

Card 1/2

96

CIA-RDP86-00513R000101420013-9" APPROVED FOR RELEASE: 03/20/2001

ANDRIYAUSKAYTE, Ye. M. Cand Agr oci -- (diss) "Effect of drainage upon the physical properties and yields of soils with various mechanical compositions." Kaunas, 1958. 26 pp with graphs (Min of Agr USSR. Lithuanian Agr Acad), 130 copies (KL, 52-58, 104)

-23-

						<b>#</b>
ANDI	RIYAUSKAYTE, Ye.[Andrija	uskaite, E.]				
	Effect of drainage or soils. Pochvovedenie	*				
* **	<ol> <li>Litovskiy nauchno- i melioratsii.</li> </ol>	-issledovateliskiy ins	titut gidrotek	nniki	4	•
	(Drainage)	(Soil physics	1)			
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ANDRIYAUSKAYTE, Ye. [Andrijauskaite, E.] (g.Kaunas)

Tile drainage in Lithuania. Gidr.i mel. 13 no.7:40-43 Jl '61.

(HIRA 14:7)

(Lithuania—Drainage)

Ü USSR / General Problems of Pathology. Immunity. : Ref. Zhur - Biologiya, No. 3, 1959, 13448 Abs Jour : Andriychenko, V. I. Author : On the Influence of Hypothermia on the Changes Inst of Opsonophagocytic Reactions in the Blood of Title Animals After Vaccination and on the Ability to Produce Agglutinins. : Fiziol. zh., 1957, 3, No. 6, 83-90 Orig Pub : The influence of hypothermia on the immunization process was investigated in rabbits, guinea pigs Abstract and mice which were vaccinated with a live or killed culture of Bacterium prodigiosum (BP) or typhoid vaccine. After narcotization with ether, the animals were covered with ice through an Card 1/3 7

USSR / General Problems of Pathology. Immunity.

U

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13448

oilcloth and left in this position with a rectal To of 20-210 for 2-4 hours. The opsonophagocytic index (OI), phagocytic number (PN) and the titer of agglutinins (TA) in previously immunized and control animals did not change during cooling or in the course of 3 days after it. After intravenous introduction of a live culture of BP to cooled rabbits, a considerable number of animals perished during the posthypothermic period with the appearance of bacteremia, at a time when in many uncooled control rabbits 24 hours later, bacteria were no longer found in the blood. OI and PN did not significantly differ at various times after vaccination in experimental and control animals. With vaccination of cooled animals with dead cultures,

Card 2/3

## \*APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101420013-9"

USSR / General Problems of Pathology. Immunity.

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5

Abs Jour : Ref. Zhur. - Biologiya, No. 3, 1959, 13448

with vaccination with a live culture, the TA in experimental animals was higher than in control animals. With vaccination of animals immediately after cooling or in the beginning of the posthypothermic period, the formation of agglutinins was inhibited, regardless of whether the vaccination was performed with live or killed culture.— M. A. Gruzman

SAL'NIKOV, M.Ye. [Sal'nykov, M.IE.], kand. biol. nauk, ctv. red.;

ANDRIYCHUK, M.D. [Andriichuk, M.D.], red.; EEREZOVSKAYA, D.N.

[Berezovs'ka, J.N.], tekhn. red.

[Problems of putrefaction in the bodies of water of the Dnieper besin] Pytannia biologichnoi saprobnosti vocbim baselnu Dnipra. Kylv, Vyd-vo AN URSR, 1963. 45 p.

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1. Akademiya nauk URSR, Kiev. Instytut hidrobiologii.

(PUTREFACTION)

(DNIEPER VALLEY—WATER--MICROBIOLOGY)

PASTERNAK, S.I., kand. geol.-miner. nauk, otv. red.; ZDUN, V.I., doktor biol. nauk, red.; MALINOVSKIY, K.A. [Malynovs'kyi, K.A.], kand. biol. nauk, red.; CHERKASHCHENKO, M.I., kand. geol. nauk, red.; TISHCHENKO, M.N. [Tyshchenko, M.N.], red.; ANDRIYCHUK, M.D. [Andriichuk, M.D.], red.; MATVIYCHUK, O.O. [Matviichuk, O.O.], tekhn. red.

[Present and past fauna in the western provinces of the Ukraine] Suchasna ta mynula fauna zakhidnykh oblastei Ukrainy. Kyiv, Vyd-vo AN URSR, 1963. 92 p. (MIRA 17:2)

1. Akademiya nauk USSR, Kiev. Naukovo-pryrodoznavchyi muzey.

SAL'NIKOV, M.IE. [Sal'nykov, M.IE.], kand. biol. nauk, otv. red.;
ANDRIYCHUK, M.D. [Andriichuk, M.D.], red.; TURBANOVA,
N.A., tekhn. red.

[Problems of the ecology and cenology of the aquatic organisms of the Dnieper River] Pytannia ekologii i tsenolologii vodnykh organizmiv Dnipra. Kyiv, Vyd-vo AN Ukr. RSR, 1963. 40 p. (MIRA 16:11)

1. Akademiya nauk URSR. Kiev. Instytut hidrobiologii. (Dnieper River--Hydrobiology)

VLASYUK, P.A., akademik, otv. red.; OKANEMKO, A.S., doktor biol.

nauk, red.; MANORIK, A.V., kand. biol. nauk, red.; KALININ,
F.L., doktor biol. nauk, red.; PROTISENKO, D.F., doktor
biol. nauk, red.; SIROCHENKO, I.A., doktor sel'khoz. nauk,
red.; KAPITANCHUK, V.A., red.; ANDRINCHUK, M.D. red.

[Photosynthesis and cror yields] Fotosintez i produktivnost' rastenii. Kiev, Naukova dumka, 1965. 280 p.

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1. Akademiya nauk URSR, Kiev. Instytut fiziologii roslyn ta
agrokhimii.

MAZURMOVICH, B.N., otv. red.; BOSHKO, G.V., red.; GUSHCHA, G.I., red.; SMORGORZHEVSKAYA, L.A., red.; FEDORENKO, I.A., red.; ANDRIYCHUK, M.D., red.; KAS'YAN, S.N., red.

[Parasites and parasitoses in man and animals] Parazity i parazitozy cheloveka i zhivotnykh. Kiev, Naukova dumka, 1965. 411 p. (MIRA 18:9)

1. Akademiya nauk URSR, Kiev. 1. Kiyevskiy gosudarstvennyy universitet (for Mazurmovich). 3. Institut zoologii AN Ukr.SSR (for Boshko).

MARKEVICH, Aleksandr Prokof'yevich [Markevych, O.P.]; ANDRIJCHUK, M.D., red.; DAKHNO, Yu.B., tekhn. red.

[Phylogeny in the animal kingdom] Filogeniia tvarynnoho svitu. Kyiv, Vyd-vo AN URSR, 1964. 197 p. (MIRA 17:3)

TSEYEB, Ya.Ya.; ROLL, Ya.V.[deceased]; ZEROV, K.K.; VLADIMIROVA, K.S. [Vladymyrova, K.S.]; OLIVARI, G.A.[Olivari, H.A.]; GURVICH, V.V.; BIRGER, T.I.[Birher, T.I.]; MALYAREVSKAYA, O.Ya. [Maliarevs'ka, O.IA.]; CHORNOGORENKO, M.I.[Chernohorenko, M.I.]; LITVINOVA, M.O.[Lytvynova, M.O.]; ANDRIYCHUK, M.D., red.

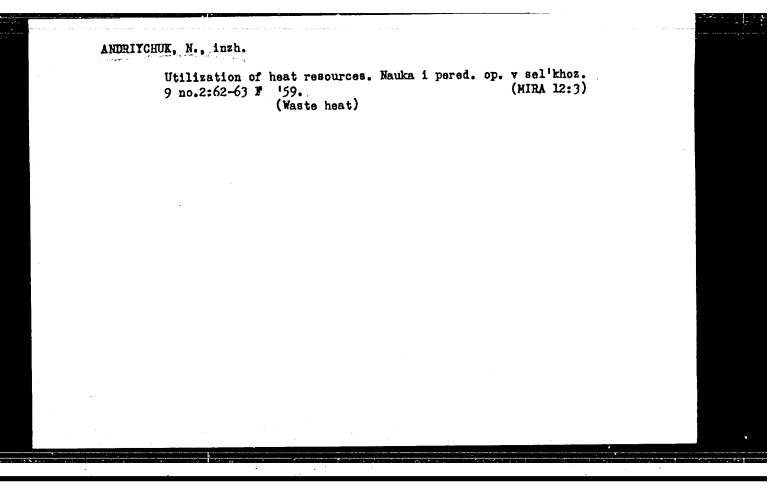
[Kakhovka Reservoir; a hydrobiological outline] Kakhovs'ke vodoimyshche; hidrobiologichnyi narys. Kyiv, Naukova dumka, 1964. 303 p. (MIRA 17:8)

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TOPACHEVSKIY, Vadim Aleksandrovich; ANDRIYCHUK, M.D., red.

[Insectivora and Rodentia of the Nogaysk Late Pliceana fauna] Nasakomoladnye i gryzuny nogaiskoi pozdnej catsenovoi fauny. Kiev, Naukova dumka, 1965. 162 .

(MIRA 18:5)



RYABININ, D.D.; ANDRIYCHUK, V.D.; POLIV'YANIY, A.P. [Polyv'ianyi, A.P.]

Design of mixers for plastics. Khim.prom. [Ukr.] no.1:80-82
Ja-Mr '64. (MIRA 17:3)

RYABININ, D.D.; ANDRIYCHUK, V.D.; FOLYVYANYY, A.P. [Polyv'ianyl, A.P.]

System for insulation coating of wires. Knim. prom. no.4r

24-27 O.D \*64.

(MRRA 18:5)

ANDRIYCHUK-RYABOKON', M.A.[Andriichuk-Rishokin', N.A.]

Utilizing waste heat, Mekh, sil', hosp, 9 no. 6:9 Je '58.

(MIRA 11:7)

1. Starshiy inzhener Cherkas'kogo oblastnogo upravlinnya sil's'kogo gospodarstva.

(Waste heat)

RUBIN, S., doktor sel'skokhozyaystvennykh nauk; ANDRIYENKO, A., kand.

sel'skokhozyaystvennykh nauk

Long experience in fruit culture. Hauka i pered. op. v

sel'khoz. 8 no.9:39-41 S \*58.

(Fruit culture)

RASSADKIN, I. (Moskva); RAKITYANSKIY, V. (Moskva); YEROSHKIN, V. (Moskva);
KONCHAYEV, B. (Leningrad); PARADA, V. (Uzbekskaya SSR);
YADRENNIKOV, G. (Kurganskaya obl.); KRYLOV, Ye., (Temir-Tau);
PAN'KO (Krasnoyarsk); BALASHOV, V. (Komsomol'sk-na-Amure);
PAVLENKO, S. (Rubtsovsk); TOKOYEV, N. (Kirgizskaya SSR);
ANDRIYENKO, A. (Perm'); TEREKHOV (Tula); KAZAKUV, M. (Baku);
TALBAYEV (Aktyubinskaya obl.); KOPTEVA, T. (Khar'kov); CHERKASHIN,
I. (Izhevsk); BEZDETKO, V. (Alma-Ata); BURKOV (Kurganskaya obl.);
KARPOV A. (Krasnodar); BOGDANOV (Ivanovo); SOZINOV, M. (Gor'kiy)

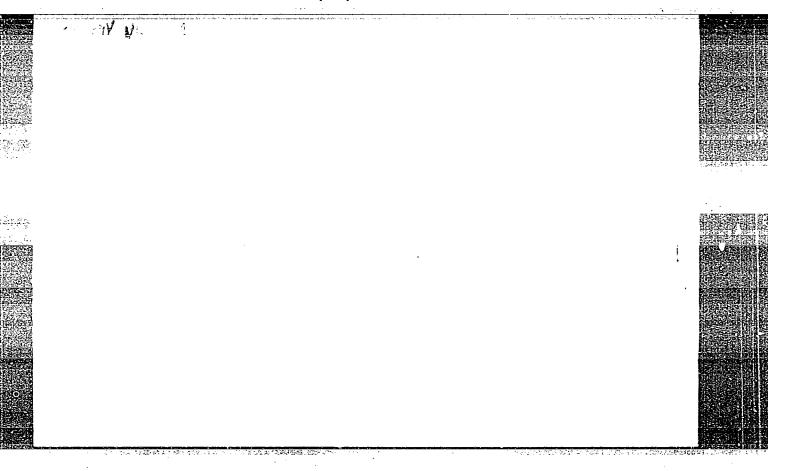
Is there a need for external fire escape stairs? Pozh.delo
8 no.7;26-27 Jl '62. (MIRA 15:8)

(Fire escapes)

NOVOZHILOV, M.G., prof., doktor tekhn. nauk; SEIXANIN, V.G.; TARTAKOVSKIY, B.N.; Prinimali uchastiye: PCHELKIN, G.D., inzh.; ESKIN, V.S., inzh.; SHARKOV, A.M., kand. tekhn. nauk; BORISYUK, R.F., inzh.; ABDUFATTAKHOV, A.A., inzh.; ANDRIYENKO, A.F., inzh.; KTITOROV, P.M., inzh.; GLUSKIN, L.I., inzh.; LEVCHENKO, N.K., inzh.; GAVRIIXUK, I.I., inzh.; SHPEKTOROV, Yu.Z., inzh.; KOCHERGA, N.T., red.; GORKAVENKO, L.I., tekhn. red.

[New technical methods and equipment in open-pit mining of mineral deposits] Novaia tekhnologiia otkrytoi razrabotki mesto-rozhdenii poleznykh iskopaemykh. Pod obshchei red. M.G.Novo-zhilova. Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1961. 205 p. (MIRA 15:5)

(Strip mining)



ANDREYENKO, A.P., kapitan 3-go ranga

"Course in navigation." Vol. 4 by E.G.Glinkov. Reviewed by
A.P.Andrienko. Mor.stor. 46 no.5194-96 ky '63. (MIRA 16:4)

(Navigation.—Study and teaching)

(Glinkov, E.G.)

ANDRIYENKO, A. S., Cand Agr Sci -- (diss) "Effectiveness of Various Systems of Maintenance of Soil in Fruit-Bearing Gardens under Conditions of Southwestern Forest-Steppes Areas of the Ukrainian SSR." Michurinsk, 1956. 28 pp (Min of Higher Education USSR, Fruit and Vegetable Inst im I. V. Michurin), 100 copies (KL, 50-57, 119)

- 22 -

Country Category CULTIVATED PLANTS, FRUITS, Berries, Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO. 96121 : Rubin, S.S.; Andriyonko, A.S. Author Institut. Title : Battar Soil Conditioning in Fruit Orchards Orig. Pub. : Sadovodstvo, vinogradarstvo i vinodeliye, Moldavii, 1957, No.6, 19-22 : A study has been made at Uman' Agricultural Insti-Abstract tute ever since 1931 onthe effectiveness of various systems of keeping the soil in an apple orchard (Pepinka Litovskaya grafted on a forest variety). The trues grow and bear fruit best when the rows between them are kept fallow and when one combines fallow tillage in the first half of summer with the planting of summer siderate orops (peas, buckwhent, mustard, etc.) during the latter half of surmer and plowing these in during autumn of the following year. Intercropping Card: 1/2

ACC NR: AT6006205		IJP(c) GG/GD/BC		
). SOURCE	E CODE: UR/0000/	GG/GD/BC 65/000/000/0003/001	6	
AUTHOR: Andriyenko, A. Ya.				
ORG: none			62	
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TITLE: A method of assigning perturbations accuracy of nonlinear control systems	during an increase	AND THE REAL PROPERTY.		
accuracy of nonlinear control systems	during an investiga	ition of the statistical		
SOURCE: AN SSSR Inguitaria				
SOURCE: AN SSSR. Institut avtomatiki i teler (Technical cybernetics). Moscow, Izd-vo Nat				
TOPIC TAGS: sutomatic control of				
Monte Carlo method, perturbation, algor ABSTRACT: The principal	inear control system	n, statistic analysis		
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STEKLOF, N.L., inzh.; ANDRIYENKO, B.K., inzh.

New design of the rotor wheel of a hydraulic adjustable blade turbine. Energomashinostroenie 7 no.5:41-43 My '61.

(Hydraulic turbines)

(MIRA 14:8)

ANDRIYENKO, D.A.; CHIRYAYEV, A.G.

Parallactic photography of polar lights in the Tiksi Bay region. Geomag. i aer. 3 no.6:1135-1136 N-D '63. (MIRA 16:12)

1. Kiyevskiy gosudarstvennyy universitet i Institut kosmofizicheskikh issledovaniy i aeronomii Yakutskogo filiala Sibirskogo otdeleniya AN SSSR.

ACC NE.	66 Brt(1)/FC AP6018867		SOURCE CODE:	UR/0203/65/005	loor loons loos	7	
AUTHOR:	Andriyenko, D	Λο		u., 0 0 ) (00 )	migration and a second second		
ORG: K1	ev State Unive	sity (Kiyevskiy g	osudarstvennyy un	iversitet)	35 B		
ritle: 1 in 1964	Results of det	ormination of auro	ral heights from	observations a	Tiksi Pay		
OURCE:	Geomagnetism :	aeronomiya, v. 5 mera/NAFA-30-25 c	, no. 5, 1965, 876	and the second of the second o			
ABSTRACT: March 190 of photogof the di	Parallactic 64 using broad- graphs of diffe istribution of	surveys of aurorate format NAFA-3C/25 rent auroral formate heights of the least	Were made at Til cameras. More to were obtained.	The curves			
hore efficease of chould be cerized by	fect in auroral f auroral heigh s observed over	heights was confit near the shore a islands, river de	peaks. The exist trmed. There is a and over shoals. altas and other re	tence of a gradual de- This effect agions charac-			
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Determining the altitude of polar lights from base photographs taken at Tiksi - Muostakh. Geomag. i aer. 3 no.4:762-764 163.

(MIRA 16:11)

1. Kiyevskiy gosudarstvennyy universitet.

Determining the latitute of the Kiev Astronomical Observatory.
Astron.tsir'. no.172;12-13 Ag '56. (MLRA 10:1)

1. Kafedra astronomii Kiyevskogo gosudarstvennogo universiteta imeni T.G. Shevchenko.

(Kiev--Latitufe)

Results of determining the height of auroras from large-size photographs taken at Tiksi Bay. Geomag. i aer. 5 no.3:450-459 My-Je '65. (MIRA 18:5)

1. Kiyevskiy gosudarstvennyy universitet.

Determining the altitudes of homogeneous arcs and bands of auroras in Tiksi Bay. Geofiz. i astron. no.8:35-39 165.

(MIRA 19:1)

1. Kiyevskiy gosudarstvennyy universitet.

L 14195-66 EWT(1)/FCC CW

ACC NR: AP6002752

SOURCE CODE: UR/0203/65/005/006/1068/1070

AUTHOR: Andriyenko, D. A.

26

ORG: Kiev State University (Kiyevskiy gosudarstvennyy universitet)

3

TITLE: Some characteristics of the distribution of aurorae polares with respect to altitude

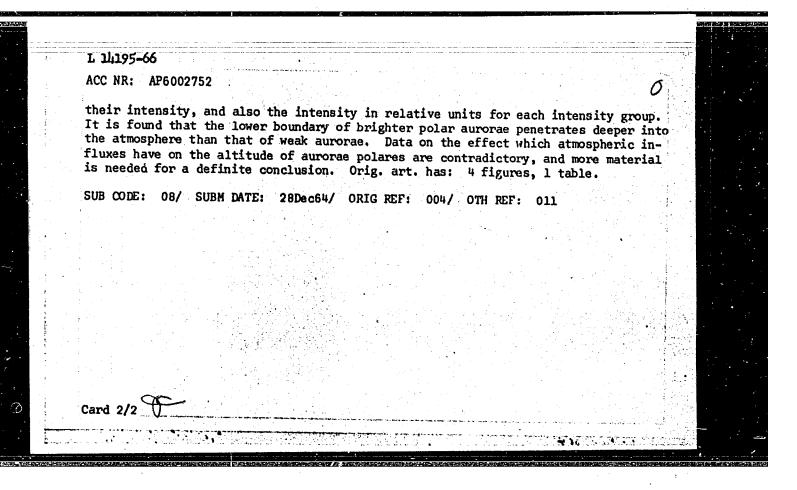
SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1068-1070

TOPIC TAGS: aurora, atmospheric electric phenomenon

ABSTRACT: The author studies the altitudes of the lower edge of polar aurorae as a function of their intensity, as well as the effect of atmospheric influx on the distribution of polar aurorae with respect to altitudes. Curves are given showing the vertical distribution of altitudes for the lower edge of uniform arcs and bands as well as for radial forms of aurorae in various intensity groups. Analysis of these curves shows that the average altitudes of the lower edge for all forms of aurorae decreases as the intensity increases. A table is given showing the average values of the altitudes for the lower edge of all forms of polar aurorae as a function of

Card 1/2

UDC: 550.388.8



ratification of the time

ACC NR: AR6020766

SOURCE ODDE: UR/0269/66/000/003/0065/0065

AUTHOR: Andrivenko, D. O.

TITLE: Littoral effect acting on the altitudes of the aurora polaris

SOURCE: Ref. zh. Astronomiya, Abs. 3.51.552

REF SOURCE: Visnyk Kyyivs'k. un-tu. Ser. astron., no. 6, 1964, 46-47

TOPIC TAGS: aurora, topography

ABSTRACT: The effect of the littoral on the altitudes of the aurora polaris was detected by an analysis of the results of determining the altitudes of the lower edges for similar ares and bands. The altitude of points along the are were determined, the dinstances of these points from the coastal line were found, and the dependence of the altitude on the distance of each point from the coastal line was plotted. The ares were separated into two groups according to the altitude. It was found that the altitudes of the points along the lower edges increased monotonically over the sea for arcs of the first group, the altitude of which was less than 110 km. This was not observed for the arcs of the second group (altitude > 110 km). It was assumed that the arcs of the first group and the brightest arcs were the ones most frequently subjected to the effect of the littoral during changes in geographic position. Bibliography of 5 titles

SUB CODE: 04

UDO: 551.594.5

31983 5/142/61/004/004/004/018 E192/E382

9.2520 (1150, 1154,1161) AUTHOR: Andriyenko, E.N.

TITLE:

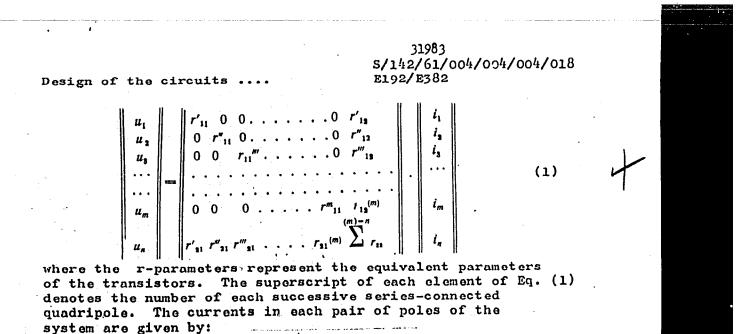
Design of the circuits with series-connected transistors

Izvestiya vysshikh uchebnykh zavedeniy, PERIODICAL: Radiotekhnika, v. 4, no. 4, 1961, pp. 418 - 424

An increase in the output voltage or power of a TEXT: semiconductor circuit can be achieved by connecting a number of transistors in series. A system of this type is shown in Fig. 1. For the purpose of analysis a transistor in this system can be regarded as a linear quadripole. It is also assumed that the system operates at frequencies much lower than the cut-off frequencies of the transistors. Analysis of the system can be based on the linear theory of 2n-poles (Ref. 5 - E.V. Zelyakh -Principles of the general theory of linear electrical circuits, pub. by AS USSR, 1951), whose equation in the matrix form is as follows:

Card 1/6 <

(2)



Card 2/6;

31983 S/142/61/004/004/004/018 E192/E382

Design of the circuits ....

where  $k = 1, 2, 3 \dots n$ ,

A is the determinant of the matrix of Eq. (1), and Mik is the minor of the matrix element relating to the i-th row and k-th column.

The voltage-amplification of the system with respect to any input is expressed by:

$$K_{uk} = i_n R_H / u_k$$

where  $R_H$  is the common load of the system. The input resistance of the system at a given input is equal to  $\mu_k/i_k$  and its power-amplification is:

$$K_{pk} = K_{uk}^2 \frac{R_{1k}}{R_H}$$

where  $R_{ik}$  is the input resistance. The output resistance Card  $3/62^{-}$ 

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Design of the circuits ....

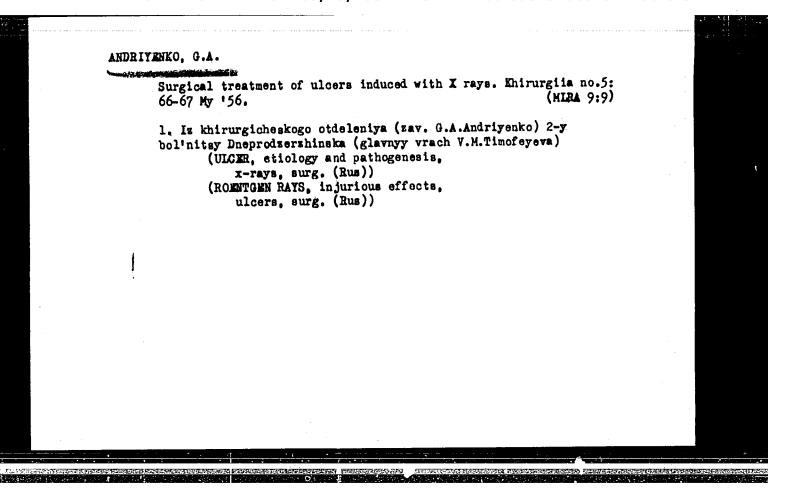
of the system is equal to the sum of all the output resistances of the individual transistors. In order to preserve the normal operating conditions for the individual transistors, the load R<sub>H</sub> and the supply voltage E should be chosen so that:

 $R_H = m \cdot r_H$ ,  $E = m \cdot E^q$ 

where r<sub>H</sub> is the optimum load for a single transistor, and E<sup>0</sup> is the supply voltage for an individual transistor.

The above equations are employed to analyse the operation of a two-transistor circuit operating in common-emitter connection; two input signals are applied to the base circuits of the transistors and the output signal is taken across the common load. Analysis of this circuit shows that in order to increase the voltage and power developed in the load, use of a series-connected system is quite feasible. However, it is recommended that transistors having equal values of  $R_i = r_{22}$  and

Card 4/85

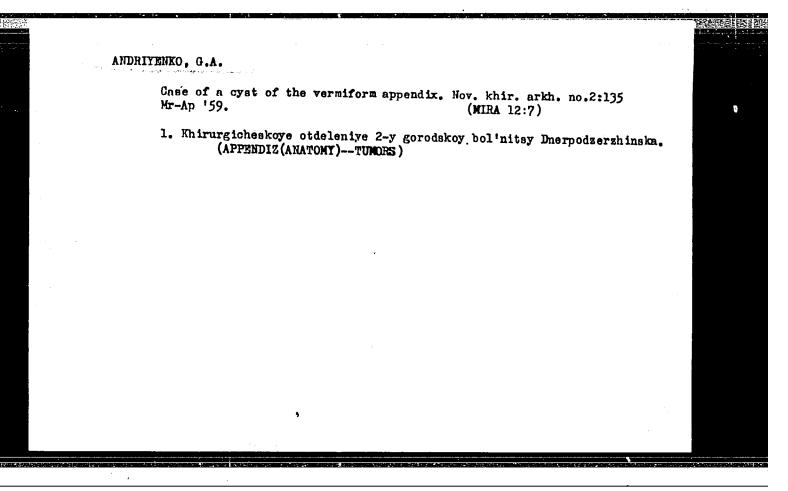


Surgery for nonhealing trophic ulcers of the leg in older persons.

Nov.khir.arkh. no.6:80 N-D 157. (MIRA 11:3)

1. Khirurgicheskoye otdeleniye 2-y Dneprodzerzhinskoy gorodskoy bol'nitsy)
(IEG--UICERS)

CIA-RDP86-00513R000101420013-9" APPROVED FOR RELEASE: 03/20/2001



ANDRIYENKO, G. I.

Andrivenko, G. I. -- "The Use of Pot Seedlings for Growing Cucumbers in Open and Heated Soils of the Forest Steppe Region of the Ukrainian SSR." Min Higher Education Ukrainian SSR. Khar'kov Order of Labor Red Banner Agricultural Instiment V. V. Dokuchayev. Khar'kov, 1956. (Disseration For the Degree of Candidate in Agricultural Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

SOV/137-57-1-765

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 98 (USSR)

AUTHOR: Andriyenko, K.A.

TITLE: Improvement of Casting Surface (Uluchsheniye poverkhnosti otlivok)

PERIODICAL: V sb.: Opyt proiz-va otlivok. Kharkov, Oblizdat, 1955, pp 165-

168

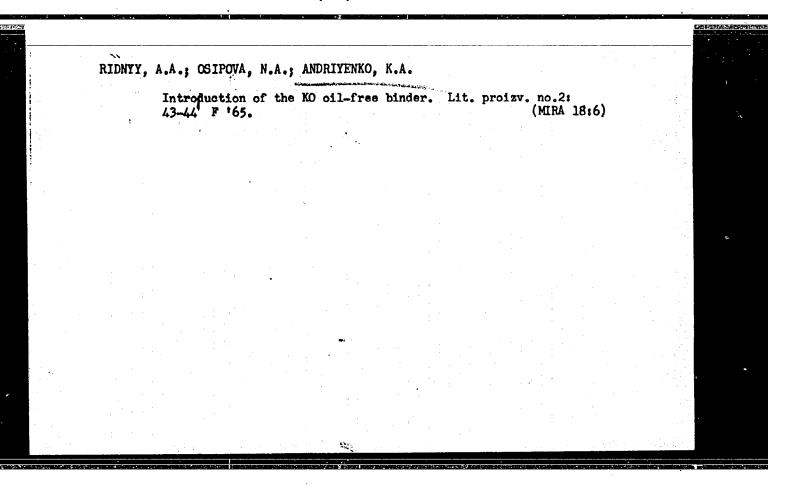
ABSTRACT: In the manufacture of consumer goods (flat irons, meat grinders, etc.) native fine sands with 92.5% 140- and 200-screen oversize

were used. These sands quarried at the Novaya Vodolaga station (near Khar'kov) contains (in %): clayey substances 0.30, SiO<sub>2</sub> 96-97, CaO 1.2, MgO 0.36-0.75, Fe<sub>2</sub>O<sub>3</sub> 0.8, and Al<sub>2</sub>O<sub>3</sub> 0.88-0.92. "P", "4GU" and "ZIS" binding additives are used in the preparation of core mixtures. The latter produces the best results in surface and over-

all strength. The quality of the casting surface is good.

Ya. M.

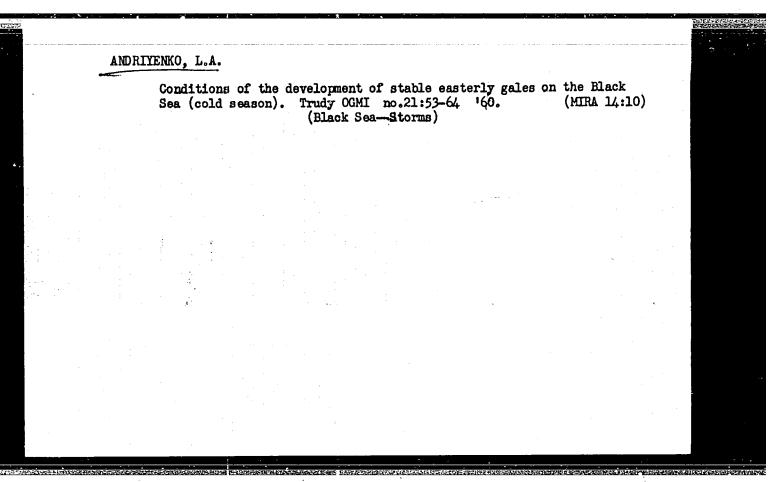
Card 1/1



ANDRIYENKO, L.

In the struggle to solve the problem of overtaking the U.S. in the per capita production of meat, milk, and butter. Vop. ekon. no.2: 3-15 7 58. (MIRA 11:3)

1. Zaveduyushchiy Sel'skokhozyaystvennym otdelom TSentral'nogo komiteta Kommunisticheskoy partii Ukrainy. (Ukraine--Stock and stockbreeding)



ANDRIYENKO, Leonid Vasil'yevich [Andriienko, L.V.]; KOSENKO, P.F., red.; TUBOLEVA, M.V. [Tubolieva], red.

[For the further development of the collective-farm system]
Za dal'shyi raskvit kolhospnoho ladu. Kyiv, 1958. 47 p.
(Tovarystvo dlia poshyrennia politychnykh i naukovykh snan'
Ukrsins'koi RSR. Ser.3, no.17)
(Collective farms) (Machine-tractor station)

ANDRIYENKO, Leonid Vasil'yevich[Andriienko, L.V.]; BAUMUSHTEYN, V.Ye., red.

[General trend; the ways for agricultural intensification] General'nyi napriam; shliakhy intensifikatsii sil's'koho hospodarstva. Kyiv, Politvydav Ukrairy, 1964. 107 p. (MIRG 18:1)

ANDRIYENKO, L.V. [Andriienko, L.V.]

To the new frontiers. Nauka i shyttia 10 no.3:30-33 Mr '60.
(MIRA 14:8)

1. Zaveduyushchiy sel'skokhozyaystvennym otdelom TSentral'nogo komiteta Kommunisticheskoy partii Ukrainy.
(Ukraine—Farm mechanization)

# ANDRIYENKO, L.V. [Andriienko, L.V.]

Patroitic pledges. Nauka i zhyttia 11 no.7:23-26 J1 161. (MIRA 14:8)

1. Zaveduyushchiy sel'skokhozyaystvennyym otdelom TSentral'nogo komiteta Kommunisticheskoy partii Ukrainy.

(Ukraine—Agriculture)

LACHKOV, G.M., inzh.; ANDRIYENKO, M.Z., inzh.

Device for the proportional load distribution between generators operating in parallel and frequency holding. Biul. tekh.-ekon.inform. Tekh. upr. Min. mor. flota 7 no.5157-67 162. (MIRA 1623)
(Electricity on ships) (Electric generators)

ANDR YEARD, N. ., incl.; MELCHEOVA, M.S.; Incr.; LINNIKOV. I.K., inch.

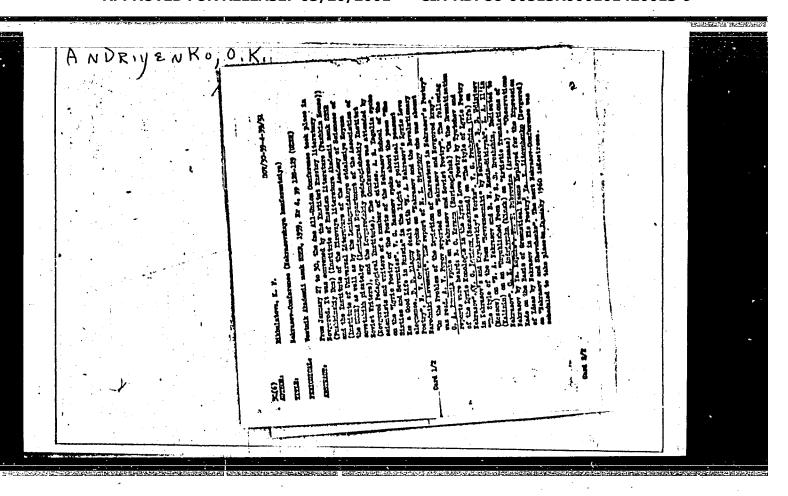
Eving synthetic diamonds at the Denpropetroves Press Plant.

Machine contends no.5812-15 3.0 '65. (MIRA 1819)

The engineer's bill to the physician. Zdorov'e 3 no.8:5-6 Ag '57.
(HYGIEMS)

(HYGIEMS)

(HYGIEMS)



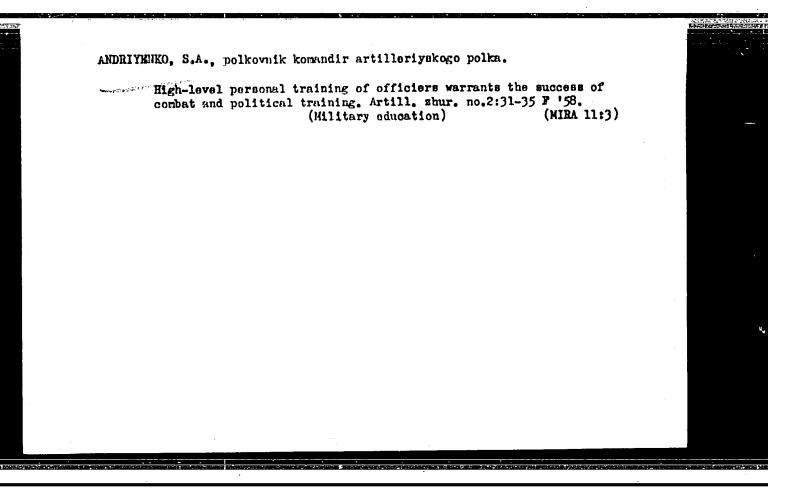
APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101420013-9"

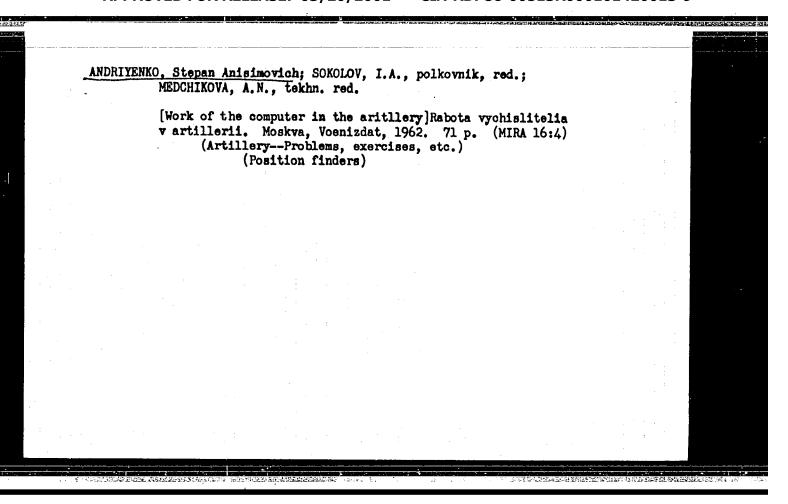
ANDRIYENKO, P.F., insh.

Self-propelled drilling unit. Gor. shur. no.9:68 S '63.

(MIRA 16:10)

1. Priisk im. Bilibina, Magadanskaya obl.



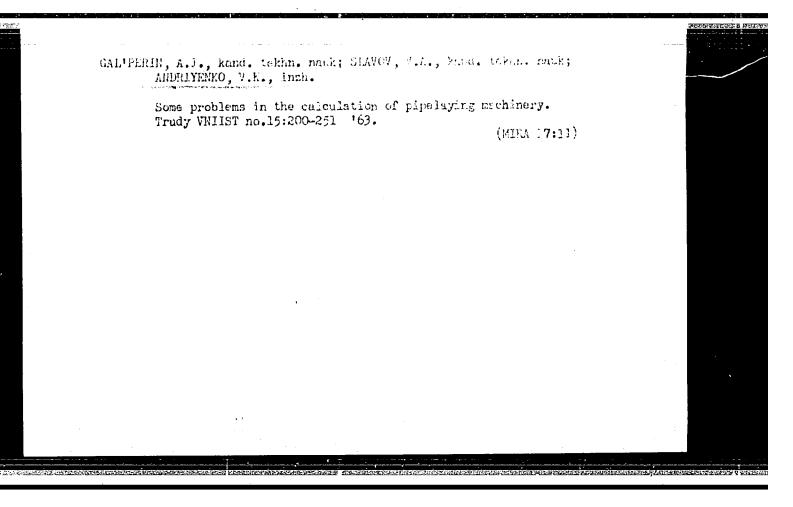


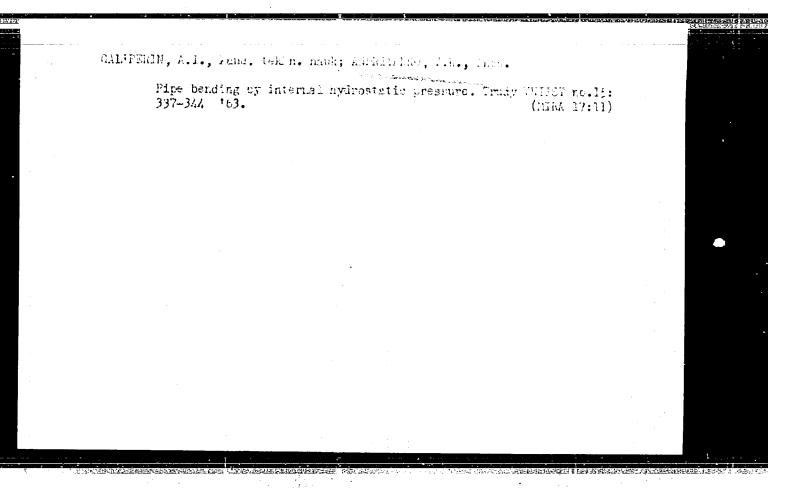
GOLIK, A.Z.; RYNDICH, N.A.; KUCHINKA, M.Yu.; ANDRIYENK., S.S.

Thermomechanical properties of cord made from polycaprolactam.

Khim.volok. no.2:23-25 162. (MIRA 15:4)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko. (Textile fibers, Synthetic) (Azepinone)





# "APPROVED FOR RELEASE: 03/20/2001 CI

CIA-RDP86-00513R000101420013-9

L 17891-65 EWT(1)/EWA(h) Peb ASD(a)-5/AFETR/ESD(t)
ACCESSION NR: AP5000373 S/0108/64/019/011/0037/0041

AUTHOR: Volkov, V. M. (Active member); Andriyenko, V. F. (Active member)

TITLE: Obtaining a log-magnitude diagram in a radio-pulse amplifier by cathodic detection

SOURCE: Radiotekhnika, v. 19, no. 11, 1964, 37-41

TOPIC TAGS: log magnitude diagram, cathodic detection, amplifier

ABSTRACT: A selective-amplifier circuit with a series combination of voltages taken from stage outputs and a cathodic detection is analyzed; the circuit has an accurate log-magnitude diagram (LMD). Each stage amplifies the r-f voltage, applies it to the next stage, and contributes to the video-pulse output voltage. The latter automatically controls the stage r-f gain when the signal increases. Tubes (6ZhlB, 6ZhlP) with a short anode-grid characteristic are recommended. To prevent self-excitation and to ensure accurate LMD, special decoupling electron-

**Card 1/2** 

L 17891-65

ACCESSION NR: AP5000373

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tube stages are introduced. An analytico-graphical method for calculating such amplifiers is suggested on the basis of tube-characteristic approximations. Numerical examples illustrate the method. Orig. art. has: 6 figures and 6 formulas.

ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi (Scientific and Technical Society of Radio Engineering and Electrocommunication)

SUBMITTED: 05Nov62

ENCL: 00

SUB CODE: NG, EC

NO REF SOV: 004

OTHER: 001

Card 2/2

SHATILOV, V.A., kand.tekhn.nauk; ANDRIYERO, V.I., inzh.; FARKOV, V.V., inzh.

Control of formation by means of preliminar; moistening of the coal block. Ugol' Ukr. no.6:13-14 Je '50. (MIRA 13:7)

1. Luganskoye otdeleniye Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti gornykh rabot.

(Mine dusts)

Rail manipulator, Biul. TSIIGHM no.2:46 '61. (MIRA 14:9)

(Rolling mills—Equipment and supplies)

(Naterials handling)

CHUBUK, S.Ye.; SHAPOVAL, S.I.; ANDRIYENKO, V.V.

Capron parts of the PA-1 and PA-2 automatic stock waterer.

Trakt. i sel'khozmash. no.8:45 Ag '65. (MIRA 18:10)

1. Sovkhoz imeni K. Libknekhta Dnepropetrovskoy oblasti.

SHAPOVAL, S.I.; ANDRIYENKO, V.V. [Andriienko, V.V.], mekhanik

TSNK-2 operates safely. Mekh. sil'. hosp. 14 no.9:26 S '63. (MIRA 17:1)

1. Glavnyy inzh. sovkhoza im. Karla Libknekhta Krivorozhskogo tresta ovoshehnykh i molochnykh sovkhozov (for Shapoval).
2. Sovkhoz im. Karla Libknekhta Krivorozhskogo tresta ovoshehnykh i molochnykh sovkhozov (for Andriyenko).

# ANDRIYENKO, Ye.K.

Report of the 54th session of the Stalino Society of Traumatologists and Orthopedists. Ortop., travm. i protez. 22 no.8:87-88 Ag '61. (MIRA 14:12)

(STALINO ORTHOPEDIC SOCIETIES)

SHTUTIN, A.Ya., kand.med.nauk (Donetsk 50, Universitetskaya ul., d.55, kv.39);
ANDRIYENKO, Ye.K.

Surgical treatment of clavicular dislocations. Ortop., travm. i protez. 25 no.7:55 Jl '64. (MIRA 18:8)

1. Iz kafedry ortopedii i travmatologii (zav. - prof. M.V. Khovenko) Donetskogo meditsinskogo instituta imeni Gor'kogo (rektor - prof. A.M.Ganichkin) i Donetskogo instituta travmatologii i ortopedii (dir. - starshiy nauchnyy sotrudnik T.A.Revenko).

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S/181/62/004/008/041/041 B108/B102

AUTHORS:

Andriyesh, A. M., Kolomiyets, B. T., and Nazarova, T. F.

TITLE:

Effect of iodine and germanium admixtures on the spectral distribution of the photoconductive effect in vitreous TlAsSe

PERIODICAL: Fizika tverdogo tela, v. 4, no. 8, 1962, 2286 - 2288

TEXT: The effect of iodine (up to 6.2 at-%) and germanium (up to 35 at-%) admixtures on the spectral distribution of the photoconductive effect and on the conductivity of vitreous TlAsSe<sub>2</sub>(Tl<sub>2</sub>SeAs<sub>2</sub>Se<sub>3</sub>) was studied. Both

iodine and germanium shift the maximum of photosensitivity to shorter wavelengths and increase conductivity. The activation energy increases, too. Germanium also increased the softening temperature of TlAsSe. which

is attributed to the formation of covalent bonds between the chains and to an increase in bonding strength of the chains along which the carriers move. This effect was not observed when iodine was introduced. There are 2 figures.

Card 1/2

S/181/62/004/008/041/041

Effect of iodine ...

S/181/62/004/008/041/041

B108/B102

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR
Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR Leningrad)

SUBMITTED: April 29, 1962 (initially),
May 10, 1962 (after revision)

Card 2/2

B

L 16700-65 EWF( 3)/EWT(m)/EWP(b) Pq-4 ESD(t)/SSD/AFWL/ASD(a)-5 WH ACCESSION NR: AR5000792 S/0058/64/000/010/E011/E011

SOURCE: Ref. zh. Fizika, Abs. 10E81

AUTHORS: Andriyesh, A. M.

TITLE: Electric conductivity and thermal emf of the system of glass like materials TlaSeAs2(Se, Te)3

CITED SOURCE: Tr. 3-y konforentsii molodykh uchenykh Moldavii. Yestestv.-tekhn. n. Vyp. 1, Kishinev, Kartya Moldovenyaske, 1964, 6

TOPIC TAGS: glass conductivity, glass property, thermal emf, temperature dependence, band theory, semiconductor, carrier mobility, chalcogen

TRANSLATION: Results are presented of an investigation of the temperature dependence of the electric conductivity and thermal emf of the system of glass-like materials Tl<sub>2</sub>SeAs<sub>2</sub>(Se, Te)<sub>3</sub>. By applying to glass-like semiconductors the notions of band theory the author estimated the ratio of the mobilities and the effective masses of the carriers in materials of the investigated system. It is

Cord1/2

L 16700-65

ACCESSION NR: AR 5000792

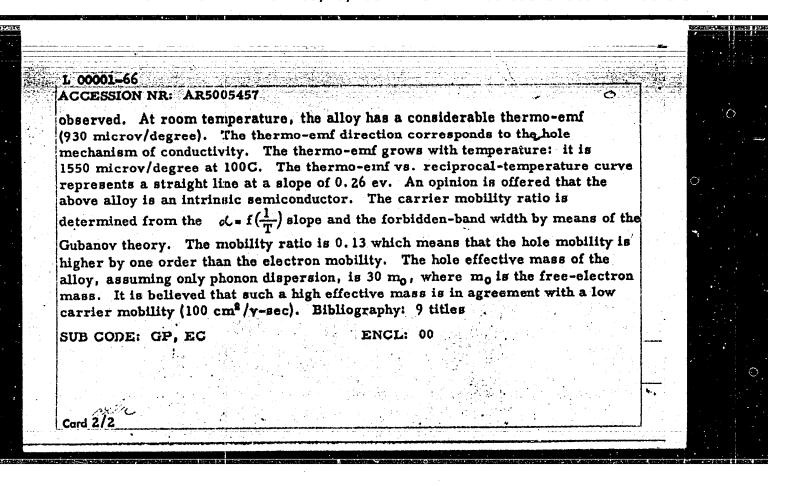
shown that a change in the composition of the investigated chalcogen glasses by increasing or decreasing the contents of the individual components leads to a monotonic change in the electric parameters.

SUB CODE: MT, SS

ENCL: 00

Card 2/2

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	L 00001-66 EWP(*)/EWP(1)/EWP(b) WH ACCESSION NR: AR5005457 S/0275/64/000/012/B007/B007 539.293:546.683'23'19'24 /5	
	SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 12B41	
	AUTHOR: Andrivesh, A. M.; Kolomiyets, B. T.	
	TITLE: Mobility and effective mass of current carriers in a vitreous Ti SeAs Tes	
	CITED SOURCE: Sb. Issled. po poluprovodnikam. Kishinev, Kartya Moldovenyaske, 1964, 57-63	
ŗ	TOPIC TAGS: carrier mobility, carrier effective mass, semiconductor, TigSeAsgTes semiconductor	
<b></b> 	TRANSLATION: The results of measuring the electric conductivity and thermomenf of vitreous Tig SeAsgTes as a function of temperature are reported. This allow was synthesized from its components in vacuum quartz vials. Micro-	
.1	structure and microhardness tests showed that the alloy was homogeneous. The alloy conductivity measured at room temperature was 2.5 x 10 <sup>-8</sup> per ohm-cm. With	
	the specimens cooled to liquid-nitrogen temperature, the dark conductivity fell off exponentially. Within the entire temperature range, only one slope 0.67 ev was	
•		*
	Card 1/2	



L 12652-65 EWT(m)/EWP(h) AS(mp)-2 RDW/JD/MLK

ACCESSION NR: AT4044563

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8/0000/64/000/000/0057/0063

AUTHOR: Andrivesh, A.M., Kolomiyets, B.T.

TITLE: The problem of current carrier mobility and effective mass in vitreous T1 sub 2 SeAs sub 2 Te sub 3

SOURCE: AN MolSSF. Institut fiziki i matematiki. Issledovaniya po poluprovodnikam; novy\*ye poluprovodnikovy\*ye materialy\* (semiconductor research; new semiconductor materials). Kishinev, Gos. izd-vo Kartya Moldovenyaske, 1964, 57-63

TOPIC TAGS: current carrier mobility, semiconductor conductivity, thermoelectromotive force, thallium semiconductor

ABSTRACT: A special amplifier, patterned after Yemel'yanenko and Trishin's device for measuring semiconductor electrical properties, was used in a study of the temperature dependence (from + 70C down to -110C) of the electrical conductivity and thermal emf in Tl<sub>2</sub>SeAs<sub>2</sub>Te<sub>3</sub> alloy prepared from the individual components in quartz vacuum ampoules and proven to be homogeneous by tests of x-ray microstructure, microhardness, and electrical conductivity. The electrical conductivity of the 3 x 3 x 100 mm samples with a 10-20C end-to-end temperature gradient was found to be 2.5 x 10-3 ohm<sup>-1</sup>cm<sup>-1</sup> at room Cord 1/2

L 12652-65

ACCESSION NR: AT4044563

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temperature, decreasing exponentially with a decrease in temperature down to that of liquid nitrogen. The 930  $\mu$ v/degree emf, found at room temperature, corresponds to a hole mechanism of conductivity and was found to be an inverse function of temperature, reaching a value of 1550  $\mu$ v/degree at -100C. The effective mass of the holes was of the order of 30 m<sub>D</sub>, and the mobility of the holes was found to be roughly one order of magnitude greater than that of the electrons. The temperature dependence of both the emf and electrical conductivity are diagrammed. "The authors thank A. A. Vaypolin, who performed the x-ray structural analysis, V.P. Shilo, who performed the microstructural analysis, and O. V. Yemel'yanenko, who gave valuable advice." Orig. art. has: 2 figures and 5 formulas.

ASSOCIATION: Institut fiziki i matematiki AN Mol SSR (Institute of Physics and Mathematics, AN Mol. SSR)

SUBMITTED: 13Dec89.

ENCL: 00

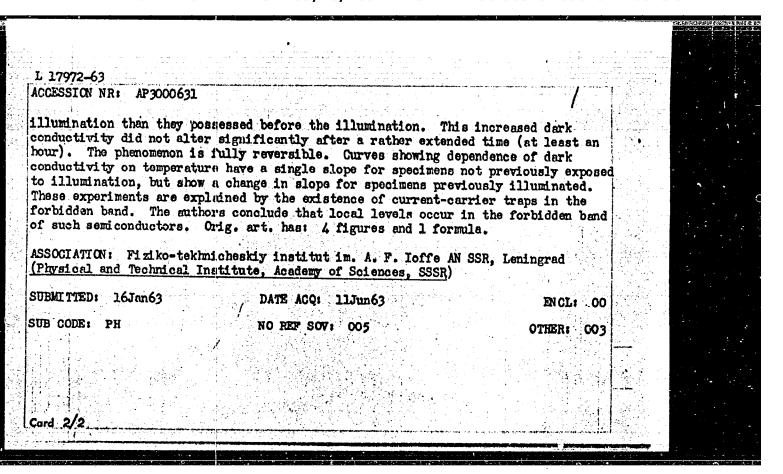
SUB CODE: IC. EC

NO REF SOV: 009

OTHER: 000

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	<u>I. 17972-63</u> EWP(q)/EWT(m)/BDS AFFTC/ASD Pq-4 WH/JD/RDW	_
	ACCESSION NR: AP3000631 8/0181/63/005/005/1461/1465	ó
	AUTHORS: Andrivesh, A. M.; Kolomiyets, B. T.	
}	TITLE: Local levels in glassy Tly SeAs2Te3	
	SCURCE: Fizika tverdogo tela, v. 5, no. 5, 1963, 1461-1465	
	TOPIC TAGS: semiconductor, forbidden band, Tl <sub>2</sub> SeAs <sub>2</sub> Te <sub>3</sub> , dark conductivity	6 ±
	ABSTRACT: The authors describe the effect of preserving high dark conductivity as a result of short-period illumination of samples of glassy Tl2SeAs2Te3At low temperatures, and they present results of measuring thermoelectric currents in these	
	samples. The method of preparing samples and testing them for homogeneity is the	
	same as proposed by the same authors in "Novy"ye issledovaniya po poluprovodnikovy materialam, " (Izd. "Kartes moldovenyaske, "Kishinev, 1963). The samples were placed	
	in a glass flask which was first evacuated and filled with nitrogen. Temperatures were measured by immersing the flask in a Dewar flask with liquid nitrogen and also	
	by means of an electrical furnace placed within the flask. An EMU-34electrometric amplifier and an EPPU-51Midautometric recorder were employed to measure the current.	
	The authors found that specimens cooled to a low temperature and then illuminated for a short period showed a much higher dark conductivity after cessation of	
	Cord 1/2	
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ACCESSION NR: AP4043392

5/0181/64/006/008/2539/2541

AUTHORS: Sobolev, V. V.; Andriyesh, A. M.; Sy\*rbu, N. N.; Shumov, S. D.

TITLE: Reflection spectra of crystals of groups II-IV and III-VI

SOURCE: Fizika tverdogo tela, v. 6, no. 8, 1964, 2539-2541

TOPIC TAGS: indium antimonide, cadmium alloy, group II element, group III element, group IV element, group VI element, reflected radiation spectrum, band spectrum

ABSTRACT: This investigation was undertaken in connection with the great interest which is attached to compounds of the CdSb and In Te type. The energy structure of crystals of groups II--V and III-2VI3 was investigated at 290K in the region 1--6 eV. The reflection spectra of polished and etched crystals CdSb, ZnSb, 56% ZnSb-44% CdSb, Cd4Sb3, Zn3Sb2, Zn4Sb3, In2Se3, In2Te3, CdIn2Se4, Ga2Se3, Ga2Te3,

Card 1/3

## ACCESSION NR: AP4043392

GaSe, and GaTe were investigated. The similarities and differences between the various spectra are briefly discussed. It is concluded that in view of the similarity of their reflection spectra, the crystals CdSb, ZnSb, and Zn<sub>3</sub>Sb<sub>2</sub>, Zn<sub>4</sub>Sb<sub>3</sub>, and Cd<sub>4</sub>Sb<sub>3</sub> have similar energy-band structures and nearly equal transition energies; The general conclusion is that the compounds of groups II--V and III--VI are close to compounds of groups III--V and III--VI

general conclusion is that the compounds of groups II--V and III--VI are close to compounds of groups III--V and II--VI not only in lattice structure but also in the type of bond and energy-band structure. Orig. art. has: 1 figure.

ASSOCIATION: Institut fiziki i matematiki AN MoldSSR, Kishinev (Institute of Physics and Mathematics, AN MoldSSR)

SUBMITTED: 23Jan64

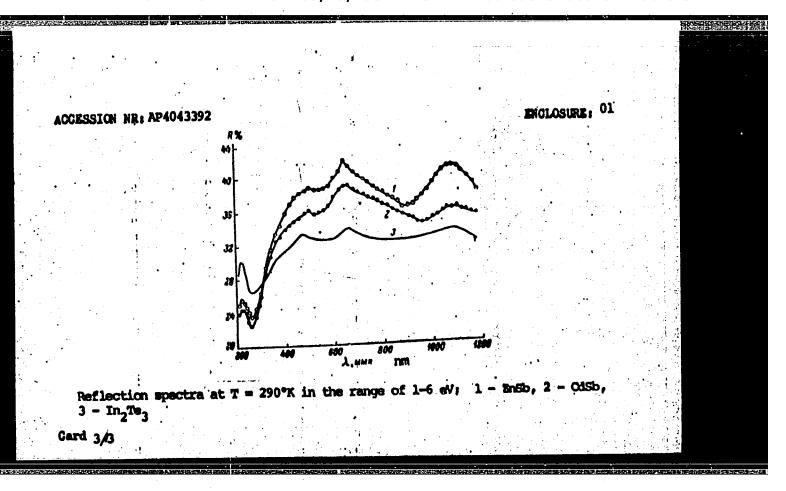
ENCL: 01

SUB CODE: SS

NR REF SOV: 003

OTHER: 001

Card 2/3



L 11997-65 EWT(m)/EMP(e)/EMP(b) Pq-4 ASD(a)-5/AFWL/AFETR/SSD RDM/JD/WH
ACCESSION NR: AP4048406 S/0181/64/006/011/3317/3320

AUTHORS: Andriyesh, A. M.; Kolomiyets, B. T.

TITLE: Electrical conductivity and thermal emf of glassy semiconductor of the Tl<sub>2</sub>Se.As<sub>2</sub>(Se. Te)<sub>3</sub> system

SOURCE: Fizika tverdogo tela, 7. 6, no. 11, 1964, 3317-3320

TOPIC TAGS: electric conductivity, thermal emf, glassy semiconductor, carrier mobility

ABSTRACT: The temperatures dependences of the electrical conductivity and thermal emf of materials of the system Tl<sub>2</sub>Se.As<sub>2</sub>(Se, Te)<sub>3</sub> were reported earlier by the present authors ["Issledovaniya po poluprovodnikam" (Research on Semiconductors), Izd. Karta Moldovenyaske, Kishinev, 1964]; the present paper gives the results for five other compositions of the Tl<sub>2</sub>Se.As<sub>2</sub>(Se, Te)<sub>3</sub> system between 400 and 100K. On increase of the tellurium content the room-temperature electrical

Cord 1/3

L 11997-65

ACCESSION NR: AP4048406 conductivity rose exponentially from  $10^{-7}$  to 3 x  $10^{-3}$  ohm<sup>-1</sup>.cm<sup>-1</sup> When the selenium content was increased the activation energy of carriers increased linearly from 0.67 eV for Tl2Se.As2Te3 to 1.2 eV for Tl2Se.As2Se3. The semiconducting glasses exhibited considerable thermal emf. For example the room-temperature thermal emf of the glassy alloy  $\text{Tl}_2\text{Se.As}_2\text{Se}_3$  reached 1700  $\mu\text{V/deg.}$  When the tellurium content was increased, the emf decreased smoothly and amounted to about 950  $\mu\text{V/deg for Tl}_2\text{Se}_3\text{As}_2\text{Te}_3$ . An investigation of the temperature dependence of the thermal emf showed that over the whole range of temperatures all the glassy alloys had p-type conduction. When the temperature increased, the thermal emf decreased. The nature of the dependence indicated intrinsic conduction. The data on the temperature dependence of the electrical conductivity and thermal emf were used to determine the ratio of the carrier mobilities by the same method as for crystalline semiconductors in the intrinsic con-The ratio for Tl2Se.As2Te3 was of the order of 0.1, duction region. i.e., the hole mobility was approximately an order of magnitude greater than the electron mobility. On increase of the selenium con-

L 11997-65 ACCESSION NR: AP4048406

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tent, the mobility ratio tended to decrease. The hole mobility was found to vary weakly with the composition. The nature of the dependence of the forbidden bandwidth and the associated parameters on the selenium and tellurium content in the investigated glassy materials was in good agreement with the hypothesis of N. A. Gorynuova and one of the present authors [Abstracter's note: no reference given] that the covalent bonds in glasses became metallic when light components were replaced with heavy ones. "The authors thank G. S. Frolova for help in these measurements." Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. M. Ioffe, AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 26May64

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L 6806-65 EWT(1) /EW3 (k / FFT(m) / EPR / EEC(b) - 2 / EWP(q) / EWP(b) Pz-6 / Pq-4 / Ps-4 | IJF(c) / AJD(a) - 5 / AFWL / AJ / AJ / ESD(t) / RAEM(t) RDW / JJ / AT / WH ACCESSION NR: AP4044638 | S/0048/64/028/008/1291/1292

AUTHOR: Andriyesh, A.M.; Kolomiyets, B.T.

TITLE: Thermostimulated current in vitreous Tl<sub>2</sub>SeAs<sub>2</sub>Te<sub>3</sub> /Report, Third All-Union Conference on Semiconductor Compounds held in Kishinev 16-21 Sept 1963/

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v.28, no.8, 1964, 1291-1292

TOPIC TAGS: semiconductor, semiconductor conductivity, photoconductor, activated energy, tellurium compound, arsenic compound, selenium compound, thallium compound

ABSTRACT: The exposure effect, discovered many years ago in crystalline selenium by P.V. Sharavskiy (Zh. eksp.i teor.fiz.4,146,1934), is described briefly as it appears in vitreous Tl<sub>2</sub>SeAs<sub>2</sub>Te<sub>3</sub> (A.M. Andriyesh, Leningr.gos.ped.in-t im.A. I. Gertsena, 1963). If this material is exposed briefly to light at a low temperature, the dark conductivity does not return to its former value by remains greater than before. This enhanced conductivity persists for "a long time" if the temperature is not permitted to rise. The enhanced conductivity is temperature dependent with an activation energy of 0.25-0.3 eV, whereas the activation energy for the intrinsic conductivity of this material is 0.67 eV. The magnitude of the enhanced conductivity is

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proportional to  $L^n$ , where L is the exposure and n=0.5 to 0.65. These phenomena are presumably due to the existence in the vitreous material of local centers which trap the carriers produced by the illumination and thus give rise to impurity type conduction. The increase in the enhanced conductivity with exposure indicates that the concentration of trapped carriers is proportional to the concentration of free ones. The authors conclude that the number of trapping centers is very large and that saturation was not reached in their experiments. The thermostimulated current in  $Tl_2SeAs_2Te_3$  was measured at two rates of temperature rise: 0.06 and 0.13 degree//sec. Each curve showed a maximum near  $-130^{\circ}C$ . From the position and magnitude of the maximum it was calculated that the trapped carriers were located some 0.25 eV below the conduction band. This is in good agreement with the activation energy obtained from the temperature dependence of the enhanced conductivity. Orig.art.has: 4 figures.

ASSOCIATION: Pizike-tekhnicheskiy institut im.A.F. Ioffe AN SSSR (Physico-technical Institute, AN SSSR); Institut fiziki i matematiki Akademii nauk MoldSSR (Institute of Physics and Mathematics, Academy of Sciences, Moldavian SSR)

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ACC NR: AT7003882

SOURCE CODE: UR/0000/66/000/000/0212/0216

AUTHOR: Andriyesh, A. M.; Sobolev, V. V.

ORG: none

TITLE: Optical reflection spectra of chalcogenides of arsenic

SOURCE: AN BSSR. Institut fiziki tverdogo tela i poluprovodnikov. Khimicheskaya svyaz' v poluprovodnikakh i termodinamika (Chemical bond in semiconductors and thermodynamics). Minsk, Nauka i tekhnika, 1966, 212-216

TOPIC TAGS: arsenic compound, light reflection, glass property, optic spectrum

ABSTRACT: The purpose of the investigation was to study the change in the energy levels, in the nature and magnitude of interatomic interaction forces when compounds like As<sub>2</sub>S<sub>3</sub>, As<sub>2</sub>Se<sub>3</sub>, or As<sub>2</sub>Te<sub>3</sub> are transformed from the crystalline state into the like As<sub>2</sub>S<sub>3</sub>, As<sub>2</sub>Se<sub>3</sub>, or As<sub>2</sub>Te<sub>3</sub> are transformed from the crystalline state into the vitreous state. To this end the authors used spectrometers (SF-4 and SF-5) to investigate in the 1 - 6 ev region and at T = 295K the reflection spectra of As<sub>2</sub>S<sub>3</sub> (in the form of cleaved single crystals, glass with surface obtained by fracture, mechanically polished glass, chemically polished glass, and aged glass synthesized five years ago), and As<sub>2</sub>Te<sub>3</sub> (in the form of a mechanically polished polycrystal, a chemically polished polycrystal, and glass). Plots of the reflection spectra are presented and the various irregularities observed in the spectra of the different samples are listed and interpreted. Comparison of the reflection spectra of the crystals and glasses of the different chalcogenides leads to the following conclusions: In the

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As<sub>2</sub>S<sub>3</sub> spectrum, the long-wave and short-wave maxima of the auripigment are close in position to the main peak and to the weak two maxima of artificially aged single crystal; the glass exhibits in addition to the "crystal" peaks also one structure-less broad band in the same region of the spectrum. In the As<sub>2</sub>Se<sub>3</sub> crystal, the main band is at 340 nm, whereas in the glass it is at 380 - 400 nm. The appearance of a peak at 340 nm in "aged" glass is due to its crystallization during the five years elapsed from the synthesis of the glass. In As<sub>2</sub>Te<sub>3</sub>, no difference is observed between the reflection of the glasses and crystals. From comparison with theoretical studies it is concluded that the maxima observed in the reflection of the single-crystal As<sub>2</sub>S<sub>3</sub> and As<sub>2</sub>Se<sub>3</sub> are due to direct interband transitions. Orig. art. has: 1 figure.

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